

Author Index

Al Adlouni, T. 399
Arndt, T. 7
Atwater, J. B. 53

Baker, E. A. 299
Barowy, W. M. 403
Bauer, G. 391
Baumann, J. 11
Beauchaine, J. P. 149
Beauchesne, P. 223
Beer, R. 11
Berben, P. H. 15
Berger, E. 239
Biemann, K. 185
Birch, J. R. 295, 299
Birk, M. 243
Blitz, J. P. 53
Böse, H. 19
Bougerolle, S. E. 289
Brault, J. W. 243
Brémard, C. 113
Browner, R. F. 199
Bruni, P. 373
Bubeck, C. 7
Buchbauer, G. 193
Buchner, R. 335
Buffeteau, T. 23
Buijs, H. 209, 439
Busca, G. 57, 75
Butler, I. S. 171

Calzaferri, G. 11
Cardellini, L. 373
Carl, R. T. 149
Carpenter, J. D. 421
Cauchetier, M. 75

Chalmers, J. M. 109, 249
Chiang, S. 39
Chukhanov, N. V. 47
Chunnillall, C. J. 353
Clark, T. A. 289
Corbett, J. K. 375

Darland, E. J. 179
Degiorgi, L. 345
de Haseth, J. A. 199
Delahaye, B. 255
Denneulin, E. 113
Depecker, C. 113, 119
Desbat, B. 23
Dietl, R. 123
Doolan, K. J. 127
Dote, J. L. 69
Du, Y.-C. 133
Durig, J. R. 429

Echterhoff, R. 27
Egelkraut, M. 63
Einarsrud, M.-A. 307, 381
Elder, J. S. 299
Eldridge, J. E. 261
Elhanine, M. 265
Entelis, S. G. 47
Esplin, M. P. 403

Farrenq, R. 265
Fifer, R. A. 385
Förster, H. 19, 35, 89
Fox, K. 93
Fredericks, P. M. 127
Fuchsgruber, A. 123
Fuller, M. P. 149

Gagel, J. J. 185
 Gallas, J.-P. 57
 Gao, H.-C. 365
 George, W. O. 375
 Geus, J. W. 15
 Geyer, T. J. 429
 Girelli, A. 175
 Goldman, A. 409
 Goss, R. 271
 Gottwald, K.-H. 63
 Graner, G. 399
 Griffith, D. W. T. 239
 Guelachvili, G. 265, 339
 Guo, H. 133, 369

Hallmark, V. M. 39, 215, 219, 235
 Handke, M. 97
 Hayes, W. 295
 Heidberg, J. 105
 Hendra, P. J. 231
 Hirano, M. 43
 Hisano, K. 315
 Hoffmann, P. 27
 Holland, F. 417
 Hou, R.-Z. 133
 Huppi, R. J. 403

Ippolitova, S. F. 47
 Jaacks, R. 303
 Jefferies, R. 295
 Jin, T.-Z. 365
 Jirovetz, L. 193
 Johns, J. W. C. 417
 Jordanov, B. 275

Kalasinsky, V. F. 429
 Kampshoff, E. 105
 Kappers, M. J. 15
 Keiderling, T. A. 279, 325
 Kellner, R. 391
 Kempfert, K. 189
 Knözinger, E. 27
 Korte, E.-H. 141, 275
 Kosters, J. J. 433
 Kumpanenko, I. V. 47

LaPorte, D. D. 421, 439

Lavalley, J.-C. 57
 Learner, R. C. M. 445
 Legrand, P. 113, 119, 255
 Leone, A. 39
 Lercher, J. A. 101
 Lévesque, D. 223
 Lewis, R. 375
 Leyden, D. E. 53
 Lin, Y.-Z. 369
 Lin, Z. 329
 Lindner, W. 123
 Liu, F. 133
 Liu, F.-A. 369
 Liu, H.-Z. 369
 Lorenzelli, V. 57, 75
 Lu, W. 357

Mackenzie, M. W. 249
 Malon, P. 279
 Marabelli, F. 345
 Maries, K. 283
 Martin, R. J. 283
 Maugé, F. 57
 McDonald, J. K. 429
 Mikosch, H. 391
 Milosević, M. 137
 Molt, K. 63
 Moss, D. G. 299
 Mowery, R. L. 69
 Mrozek, R. C. F. 349
 Mukherjee, A. 299
 Murcray, D. G. 409, 433, 439
 Murcray, F. H. 409, 433
 Murcray, F. J. 409, 433, 439
 Murthy, R. S. S. 53

Nakao, Y. 43
 Naylor, D. A. 289
 Nemori, R. 43
 Nichol, A. C. 295
 Nikiforov, A. 193
 Nikolov, G. St. 391
 Nirisen, Ø. 85

Otto, A. 141
 Øye, H. A. 85

Palusziewicz, Cz. 97

Parker, S. F. 231
Parker, T. J. 361
Philippaerts, J. 145, 163
Plumb, G. O. 295
Poole, N. 249
Pratt, F. L. 295

Quincey, P. G. 299
Quintard, P. 75

Rabolt, J. F. 39, 215, 219, 235
Rachetti, A. 53
Ramis, G. 57, 75
Ramnarine, R. 353
Rao, K. N. 339
Raverdino, V. 193
Revercomb, H. E. 421, 439
Rinsland, C. P. 409
Rippel, H. 303
Robertson, R. M. 199
Röseler, A. 79
Rosenthal, R. J. 149, 203
Rumplmayr, G. 101
Rytter, E. 85, 307, 381, 395

Savoie, R. 223
Savolahti, P. 155
Schouten, A. J. 7
Schrader, B. 227, 275
Schultz, A. A. 289
Schumann, M. 89
Schuster, G. 239
Sene, A. 119
Shen, X.-C. 357
Sherman, W. F. 349, 353
Shi, N. 365
Sides, R. 93
Simon, A. 227, 311
Smith, W. L. 439
Soloway, R. D. 133
Sombret, B. 255
Sromovsky, L. A. 439
Stein, H. 105
Stoch, A. 97
Swalen, J. D. 39, 215, 219, 235

Tanaka, H. 315
Tanaka, S. 159

Tank, V. 319
Teramae, N. 159
Thorne, A. P. 445
Tipping, R. H. 339
Tosi, G. 373
Trendafilova, N. 391
Tripp, C. 209
Turlet, J.-M. 23
Turner, A. J. 231

Vanasse, G. A. 403, 433
Vanderheyden, E. 145, 163
Vansant, E. F. 145, 163
Van Tassel, R. A. 323

Wachter, P. 345
Wan Abdullah, A. K. 361
Wang, J.-F. 369
Warecka, G. 101
Warskulat, M. 105
Wegner, G. 7
Weiss, H. 105
Weng, S.-F. 369
Wibelmann, C. 271
Wieboldt, R. C. 203
Wilkinson, G. R. 349
Williams, K. P. J. 231
Williams, W. J. 433
Wilson, J. 109
Wilson, S. R. 239
Winnewisser, B. P. 339
Winnewisser, M. 339, 417
Witten, U. 35
Wong, W. K. 323
Wood, D. J. 167
Wrobel, G. 119
Wu, J.-G. 133, 171, 365, 369
Wunsch, L. 311

Xu, D.-F. 369
Xu, G.-X. 133, 171, 365, 369
Xu, Z.-H. 171, 369

Yamada, H. 43
Yarwood, J. 93, 335
Yasui, S. C. 325
Ye, H.-J. 357
Ystenes, M. 85, 395

Zachmann, G. 311

Zerlia, T. 175

Zhang, Y.-F. 133

Zhang, Z.-L. 329

Zheng, P. 329

Zhou, W.-J. 369

Zimba, C. G. 215, 219, 235

Subject Index

adsorbate spectra 101
adsorption 27, 93, 105
algorithms 179
alkali ZSM5 101
alkanolamines 163
alpha-glycine 353
anion perturbation 381
antimicrobial 53
astrochemistry 417
atmosphere 421
atmospheric remote sensing 439
atmospheric spectra 433
atmospheric spectroscopy 409
attenuated total reflection
(ATR) 79

band distortions 307
bandshape 19
barley protein 155
baseline artifacts 279
benzene 349
Berreman effect 79
biological macromolecules 215
bisulfite 15
bolometric 261

carbon 167
carbonmonoxide 11
carbonyl 113
catalysis 89
catalysts 175
cation vibration 35
channel spectra 289
charcoal 167
charge-transfer complexes 373
chloroaluminates 381

chromatogram 179
CIRCOM 127
circular dichroism 275
Claus reaction 15
coal 175
complexes 85, 375
complex refractive index 79
composites 109
conformational analysis 325
corrosion 63
cryogenic instruments 433
 $\text{Cu}/\text{Al}_2\text{O}_3/\gamma$ catalysts 119
 $\text{Cu}-\text{Cr}-\text{O}$ catalysts 119

dental calculus 133
depth profiling 145
desorption 105
desulfurization 15
detection technique 265
detectors 209, 243
deuterated 69
diatomic 19
1,2-dicarbonitrile-4,5-dichloro-
3,6-dioxo-1,4-cyclohexadiene
373

diffuse reflectance 113, 119, 123,
127, 137, 141
diffuse reflectance infrared spec-
troscopy (DRIFT) 155, 167
dispersive Fourier transform spec-
trometer 283
dithiocarbamate 391
double pendulum interferometer
303
downwelling emission 421
dynamics 335

East Indian Sandalwood Oil 193
 ellipsometry 79
 emission 307
 emission spectroscopy 249
 enhanced infrared 43
 1,1,2,2-ethenetetracarbonitrile 373
 ethyl benzoate 85, 395
 far infrared 11, 35, 261, 335, 361
 far infrared lasers 399
 far infrared spectroscopy 353
 far infrared spectrum 339
 film 315
 fluorescence rejection 231
 Fourier 403
 Fourier transform 223, 261, 439
 Fourier transform absorption-reflection spectroscopy 97
 Fourier transform far infrared 57, 365
 Fourier transform far infrared spectra 369
 Fourier transform infrared (FTIR) 23, 35, 53, 57, 75, 93, 109, 119, 127, 137, 155, 159, 171, 185, 239, 249, 275, 357, 375, 385, 395, 421
 Fourier transform infrared-attenuated total reflectance-spectroscopy 391
 Fourier transform infrared spectroscopy 7, 27, 89, 133, 307, 381
 Fourier transform Raman 215, 219, 235
 Fourier transform Raman spectroscopy 227, 231
 Fourier transform spectrometer 271
 Fourier transform spectroscopy 209, 265, 289, 295, 311, 329
 Fourier transform spectroscopy instrument 243
 frequency shift 35
 FT-IR/PAS 175
 gas 375
 gas chromatography/Fourier transform infrared (GC/FTIR) 179, 189, 193

gas chromatography-mass spectrometry (GC-MS) 193
 gas purification 163
 gold 69
 Gram-Schmidt 179
 grazing incidence reflection spectroscopy 7
 HCl 375
 heavy fermions 345
 high performance liquid chromatography (HPLC) 185
 high performance liquid chromatography/infrared (HPLC/IR) 185
 high resolution Fourier transform infrared 303
 high resolution Fourier transform infrared spectroscopy 417
 high T_c superconductors 345
 high temperature 403
 H_2O (water) 421
 HPLC phase characterization 123
 hydrazones 373
 hydrogen bonding 385
 hydroxylammonium nitrate 385
 hyphenated techniques 203
 infrared 39, 63, 113, 167, 185, 349, 403, 409
 infrared detection 203
 infrared dichroism 391
 infrared reflection absorption spectroscopy (IRRAS) 23, 63, 69
 infrared spectra 373
 infrared spectroscopy 11, 105, 123, 141, 255, 315
in-situ measurement 159
 instrumentation 329
 instrument design 279
 integrating sphere 239
 interactions 335
 interferometer 271
 interferometry 299, 439
 intermolecular distances 385
 interstellar medium 417
 ionic crystal surface 105
 iron spectrum 445

isoprene hydrogenation 119
isotopic substitution 395

Kubelka-Munk theory 141

Langmuir-Blodgett films 7
Langmuir-Blodgett monolayers 23
lattice dynamics 315
lattice modes 353
lattice vibration 357
liquid chromatography component infrared spectra 199
liquid chromatography solvent elimination 199
liquid-lattice 349
liquids 335

matrix 375
matrix isolation 239
metal surfaces 63
MgO 27
Michelson interferometer 319, 329
mid-infrared lasers 399
millimetre wavelength 295
millimetre waves 283
mixed crystals 357
mixed valence 345
Mo 57
molecular dynamics 417
molten salts 381
monolayer islands 47
multilayer systems 307

near infrared 19, 209, 231
near-infrared excited Raman spectroscopy 227
near infrared-Fourier transform (NIR-FT) 227
near millimetre wavelengths 299
nitrosyl chloride 429
nitrous oxide 403
non-aqueous solution 365
normal coordinate analysis 391

odour analysis 193
optically pumped lasers 399
optical rotatory dispersion 275
overtone 19

oxidation 75
oxides 15

partial least-squares analysis 149
Patchouli Oil 193
phonon 361
phosphate coatings 97
photoacoustic 109
photoacoustic spectra (PA) 171
photoacoustic spectra of $\text{Ru}_3(\text{CO})_{12}/\text{Al}_2\text{O}_3$ 171
photoacoustic spectroscopy 133, 145, 149, 159
photochemical changes in the solid state 159
photochemistry 11
photodiode array Fourier transform spectrometer 323
phthalocyanine 43
polarising interferometer 283
polarization modulation 23
polymer composites 249
polymer film 43, 145
poly(octadecylmethacrylate) 7
polypeptide 325
polyvinylidene chloride 43
prepregs 109
pressure 349
propyne 399
protein 325

quality control 127
quantitative analysis 123, 149
quantum efficiency 243
quasi-optics 283

radiometric 421
radiometry 299, 433, 439
Raman 209
Raman spectroscopy 223, 227
rare earth nitrates 365
reflectance-absorbance 185
reflection 307
reflection absorption spectroscopy 159
reflectivity 261
reststrahlen effect 137
retroreflector 319
rotation 319